DREDGE ORE	GON				Contract Nu	ımber: W9127N-06-	C-CRCI
Project Name/Lo					<b>3 3 3 3 3 3 3 3 3 3</b>		
Columbia River Channel Impi		0 to 100+40					
12/7/200							
Dredge	Sample Point	,	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)
OREGON	DRP-1 (21)	19.8	7:35:23	7622830.3	734909.7	2.3	NA
	DRP-1R <sub>1</sub> (21)	19.9	7:36:14	7622843.5	734885.7	2.6	NA
Tidal Stage	DRP-2 (22)	19.7	7:43:01	0.0	0.0	2.3	11.9
Ebb	DRP-2R <sub>1</sub> (22)	19.7	7:46:59	7622743.8	735372.5	2.8	11.9
	DRP-3 (23)	-0.3	7:48:35	7622613.7	735529.4	7.8	NA
	DRP-3R <sub>1</sub> (23)	20.7	7:51:50	7622674.0	735529.1	2.3	NA
	DRP-3R <sub>2</sub> (23)	20.0	7:52:22	7622696.2	735554.8	2.4	NA
Weather:	DRP-4 (24)	20.0	8:00:11	7622913.4	735299.5	3.6	NA
Overcast	Retest @ point	of exceedan	се				
Wind:							
Calm							
Seas:							
Calm							
Disposal location	A.II	0 0	ata Dia an Na	th 0004 Dat as NAD	00		
Gateway (upland)	All coordinates a	are Oregon St	ate Plane Nor	th 3601; Datum: NAD	83		
Remarks: No exceedances. Sam	nla DDD 1D aall	aatad baaaya	o drodgo	Action Taken: None required.			
· ·				None required.			
coordinates were not m							
error. DRP-3R₁ collecte			pefore Sonde				
was at depth. DRP3-R <sub>2</sub>		· · · · · · · · · · · · · · · · · · ·					
Sample point numbers i		rrespond with					
YSI 650 MDS logged da							
	All Tests Cond					Turbidity Compliance	DO Compliance
DRP-1	Background - 10			oot of Channel		N/A	Not Required
DRP-2	100' Down Current of the Cutterhead OR 300' Down Current of the Cutterhead WA						OR, WA
DRP-3 DRP-4	150' lateral of th			ard)		WA WA	Not Required
DRP-4 DRPT	Indicates addition			,		VVA	Not Required
DIXFI	mulcales addition	mai lesting at	the point of ex	COGGUETICO			
Rx	Indicates a Re-	Test where (x)	is the Re-Tes	t number for that parti	cular point		

DREDGE ORE	<u>EGON</u>				Contract Nu	mber: W9127N-06-	C-CRCI
Project Name/Lo	ocation:						
Columbia River Channel Imp	rovement, RM 101+1	0 to 100+40					
12/7/200	05						
	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Dredge</u>	DSPP-1 (11)	20.2	8:06:21	7623863.1	735554.2	2.6	NA
Oregon	DSPP-2 (12)	20.0	8:10:41	7623808.4	735758.9	NA	11.8
Tidal Stage	DSPP-3 (13)	20.1	8:16:01	7623525.7	736182.6	2.8	NA
Ebb							
Weather:							
Overcast	Retest @ point	of exceedan	ice				
Wind:							
Calm							
Seas:							
Calm							
<b>Disposal location</b>							
Gateway (Upland)	All coordinates	are Oregon S	tate Plane No	orth 3601; Datum: NAD	O 83		
Remarks:				Action Taken:			
No exceedances.				None required.			
Sample point numbers	in parenthesis co	rrespond with	l				
YSI 650 MDS logged da					_		
Sample Point Key	<b>All Tests Cond</b>	ucted With Y	'SI 6600			Turbidity Compliance	DO Compliance
DSPP-1	100' up current	(background)	within 600' c	hannel		N/A	N/A
DSPP-2	100' down curre	nt from the di	scharge			Not Required	WA
DSPP-3	600' down curre	nt, 150' latera	al to the disch	narge		WA	Not Required
DSPPT	Indicates addition	nal testing at	the point of e	exceedence			
Rx	Indicates a Re-	Test where (x)	) is the Re-Te	est number for that par	ticular point		

DREDGE OR	EGON				Contract Nu	ımber: W9127N-06-	C-CRCI
Project Name/L	ocation:						
Columbia River Channel Imp	rovement, RM 101+10	) to 100+40					
12/7/20	05						
	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Dredge</u>	DSPP-1 (11)	20.1	9:35:02	0	0	2.6	NA
Oregon	DSPP-1R <sub>1</sub> (11)	20.0	9:36:20	7623873.3	735563.7	3.0	NA
Tidal Stage	DSPP-2 (12)	20.1	9:40:00	7623812.9	735782.4	NA	11.9
Ebb	DSPP-3 (13)	20.2	9:45:16	7623523.3	736173.2	2.7	NA
Weather:							
Overcast	Retest @ point	of exceedand	ce				
<u>Wind:</u>							
5 kts							
Seas:							
Calm							
Disposal location	All as andinates	O Ct	ata Diana Nas	th 2004: Datum: NAD	. 00		
Gateway (Upland)	All coordinates a	re Oregon Sta	ate Plane Nor	th 3601; Datum: NAD	83		
Remarks:				Action Taken:			
No exceedances.	- t- ODO			None required			
Retest at DSPP-1R <sub>1</sub> du	e to GPS error.						
Operation with a combiner	:						
Sample point numbers YSI 650 MDS logged da		respond with					
Sample Point Key	All Tests Condu	iotod With V	SI 6600			Total Caller Occurry	DO 0
DSPP-1				annal		Turbidity Compliance N/A	DO Compliance N/A
DSPP-1 DSPP-2	100' up current (			amil		Not Required	WA
DSPP-3	600' down currer			rae		WA	Not Required
DSPPT	Indicates addition			<u> </u>		VVA	Not ixequired
20111	Indicates addition	nar tosting at	the point of ex	COCOCIOC			
Rx	Indicates a Re-T	est where (v)	is the Re-Tes	t number for that part	icular point		
IVA	inulcates a ine-i	ESC MILETE (X)	13 1110 170-163	t number for that part	ισιαι μοιπι		

DREDGE ORI					Contract Nu	mber: W9127N-06-	C-CRCI
Project Name/L							
Columbia River Channel Imp		to 100+40					
12/7/20	~ ~						
	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Dredge</u>	DSPP-1 (11)	20.1	11:35:08	7623872.9	735548.4	2.7	NA
Oregon	DSPP-2 (12)	0.5	11:38:20	7623808.2	735749.0	NA	11.9
<u>Tidal Stage</u>	DSPP-2R <sub>1</sub> (12)	20.2	11:40:05	7623788.7	735749.6	NA	11.9
Ebb	DSPP-3 (13)	20.0	11:44:39	7623508.0	736180.6	3.5	NA
Weather:							
Overcast	Retest @ point	of exceedan	се				
Wind:	•						
5 kts							
Seas:							
Calm							
<b>Disposal location</b>							
Gateway (Upland)	All coordinates a	re Oregon St	ate Plane Noi	rth 3601; Datum: NAD	83		
Remarks:				Action Taken:			
No exceedances.				None required.			
DSPP-2R <sub>1</sub> (12) collected	d because sonde	was not previ	ously at				
correct depth.							
Sample point numbers		respond with					
YSI 650 MDS logged da							
	All Tests Condu					Turbidity Compliance	DO Compliance
DSPP-1	100' up current (			annel		N/A	N/A
DSPP-2	100' down currer					Not Required	WA
DSPP-3	600' down currer					WA	Not Required
DSPPT	Indicates addition	nal testing at	the point of e	xceedence			
Rx	Indicates a Re-T	est where (x)	is the Re-Tes	st number for that part	icular point		

DREDGE O Project Name Columbia River Channel Imp	rovement, RM 101+10 to	100+40			Contract Nu	ımber: W9127N-06-	C-CRCI
12/7/2							
	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Dredge</u>	DSPP-1 (11)	20.1	13:35:02	7623867.7	735573.4	2.5	NA
Oregon	DSPP-2 (12)	19.9	13:38:55	7623800.3	735750.7	NA	12.0
<u>Tidal Stage</u>	DSPP-3 (13)	19.9	13:46:10	7623537.5	736183.7	3.4	NA
Ebb							
Weather:							_
Overcast	Retest @ point of	exceedance					
<u>Wind:</u>							_
5 kts							
<u>Seas:</u>							
Calm							
<u>Disposal location</u>							
Gateway (Upland)	All coordinates are	Oregon State	Plane North 3	601; Datum: NAD 83			
Remarks:				Action Taken:			
No exceedances.				None required.			
Sample point numbers		pond with					
YSI 650 MDS logged da							
Sample Point Key	All Tests Conducte	ed With YSI 6	600			Turbidity Compliance	DO Compliance
DSPP-1	100' up current (bac	,		el		N/A	N/A
DSPP-2	100' down current fi					Not Required	WA
DSPP-3	600' down current,					WA	Not Required
DSPPT	Indicates additional	testing at the	point of excee	dence			
Rx	Indicates a Re-Test	where (x) is the	ne Re-Test nu	mber for that particula	ar point		

DREDGE ORE Project Name/Lo	ocation:				Contract Nu	mber: W9127N-06-	C-CRCI
Columbia River Channel Imp 12/7/20		0 to 100+40					
	Sample Point	Depth (ft)	Time	X-Coordinate	Y-Coordinate	Turbidity (NTU)	DO (Mg/L)
<u>Dredge</u>	DSPP-1 (11)	20.2	15:35:04	7623867.5	735567.9	2.8	NA
Oregon	DSPP-2 (12)	20.2	15:38:18	7623793.2	735771.7	NA	12.1
Tidal Stage	DSPP-3 (13)	20.1	15:42:56	7623529.8	736193.8	3.5	NA
Ebb	, ,						
Weather:	l						
Overcast	Retest @ point	of exceedar	nce				
Wind:							
5 kts							
Seas:							
Calm							
Disposal location							
Gateway (Upland)	All coordinates	are Oregon S	tate Plane No	orth 3601; Datum: NAD	83		
Remarks:		_		Action Taken:			
No exceedances.				None required.			
Sample point numbers	<u>'</u>	rrespond with	1				
YSI 650 MDS logged da							
Sample Point Key	<b>All Tests Cond</b>	ucted With Y	'SI 6600			Turbidity Compliance	DO Compliance
DSPP-1	100' up current	, ,		nannel		N/A	N/A
DSPP-2	100' down curre	nt from the di	ischarge			Not Required	WA
DSPP-3	600' down curre			Ü		WA	Not Required
DSPPT	Indicates addition	onal testing at	the point of e	exceedence			
Rx	Indicates a Re-	Test where (x	) is the Re-Te	st number for that par	ticular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

## Columbia River Channel Improvement - RM 95+00-104+20.

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DR-1	20.9	8:13:00	7623500.60	755881.45	3.2	
1527	DR-2	20.2	8:14:42	7623318.84	756537.06	17.0	13.6
<u>Tidal Stage</u>	DR-2R1	20.4	8:14:45	7623319.01	756543.14	16.7	14.0
Ebb	DR-4	19.0	8:15:52	7623529.74	757072.23	15.3	
Dredge State:	DR-4R1	20.7	8:15:55	7623529.74	757072.23	13.4	
Overflow through skimmers only	DR-3	19.6	8:17:41	7623242.04	755773.20	20.3	
Overnow unough skilliners only	DR-3R1	19.4	8:17:44	7623242.04	755773.20	16.8	
<u>Weather:</u>							
Clear							
<u>Wind:</u>							
0-5 kts							
<u>Seas:</u>							
0-1'							
Disposal location							
Columbia River RM 101							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid
	further increasing the turbidity at the location where the exceedence was
	measured. The dredge coordinates were marked on the GPS screen to
	insure no further dredging occurred at the location where the exceedence
	was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

## Columbia River Channel Improvement - RM 95+00-104+20.

Disposal	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DSP-1	20.8	9:32:19	7622680.18	735295.01	1.4	
1527	DSP-2	19.7	9:43:05	7622988.23	735031.04	4.1	14.9
<u>Tidal Stage</u>	DSP-2R1	20.6	9:43:09	7622988.23	735031.04	4.8	14.9
Ebb	DSP-3	19.4	9:44:32	7623003.05	734799.60	10.7	
Dredge State:	DSP-3R1	20.5	9:44:37	7622998.96	734805.80	8.5	
Split Hull	DSP-4	20.8	9:46:03	7622886.00	735489.86	12.1	
Split Hull	DSP-4R1	20.8	9:46:07	7622881.74	735489.98	8.7	
<u>Weather:</u>							
Clear							
<u>Wind:</u>							
0-5 kts							
<u>Seas:</u>							
0-1'							
<u>Disposal location</u>							
Columbia River RM 101							

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume.	Re-test DSP-4R1 was taken.
DSP-3 exceeded 10% over background, taken out of plume.	Re-test DSP-3R1 was taken.
on starboard side.	The disposal ended and the dredge moved away from the area.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
DSP-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

# Columbia River Channel Improvement - RM 95+00-104+20.

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DR-1	20.5	13:46:14	7623316.86	753734.45	2.7	
1529	DR-2	15.9	13:47:33	7623151.92	754079.53	14.8	14.2
<u>Tidal Stage</u>	DR-2R1	15.6	13:47:37	7623152.10	754085.61	13.2	14.2
Ebb	DR-4	18.4	13:49:02	7623328.81	754767.64	6.3	
Dredge State:	DR-4R1	19.6	13:49:05	7623328.98	754773.71	6.5	
Overflow through skimmers only	DR-3	19.7	13:50:46	7623271.57	753334.47	12.5	
Overnow unlought skillliners only	DR-3R1	19.6	13:50:48	7623275.82	753334.35	12.1	
<u>Weather:</u>							
Clear							
<u>Wind:</u>							
0-5 kts							
<u>Seas:</u>							
0-1'							
<b>Disposal location</b>							
Columbia River RM 101							
Remarks:				Action Taken			

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid
	further increasing the turbidity at the location where the exceedence was
	measured. The dredge coordinates were marked on the GPS screen to
	insure no further dredging occurred at the location where the exceedence
	was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Contract Number: W9127N-05-C-0012

## Columbia River Channel Improvement - RM 95+00-104+20.

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DR-1	20.4	10:32:27	7622791.21	753974.15	5.7	
1528	DR-2	17.3	10:34:37	7623038.39	754283.34	12.4	14.1
Tidal Stage	DR-2R1	17.4	10:34:40	7623042.82	754289.30	12.0	14.1
Ebb	DR-3	19.5	10:37:38	7622607.01	753784.78	15.6	
<b>Dredge State:</b>	DR-3R1	19.3	10:37:42	7622602.92	753790.97	13.0	
Overflow through skimmers only	DR-4	20.2	10:35:55	7623149.58	754906.42	14.5	
Overnow unlought skinnings only	DR-4R1	20.4	10:35:59	7623149.75	754912.49	12.3	
Weather:							
Clear							
<u>Wind:</u>							
0-5 kts							
Seas:							
0-1'							
<b>Disposal location</b>							
Columbia River RM 101							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume	Re-test DR-3R1 was taken.
on port side.	The dredge moved away from the area while continuing dredging to avoid
	further increasing the turbidity at the location where the exceedence was
	measured. The dredge coordinates were marked on the GPS screen to
	insure no further dredging occurred at the location where the exceedence
	was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location: Contract Number: W9127N-05-C-0012

## Columbia River Channel Improvement - RM 95+00-104+20.

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DR-1	20.3	15:36:23	7622557.04	752460.84	7.0	· · · ·
1530	DR-2	18.4	15:37:36	7622543.29	753032.70	12.4	14.2
<u>Tidal Stage</u>	DR-2R1	18.6	15:37:40	7622543.63	753044.85	12.0	14.3
Ebb	DR-4	21.5	15:39:04	7622790.18	753785.71	8.1	
Dredge State:	DR-4R1	21.5	15:39:07	7622790.35	753791.79	8.1	
Overflow through skimmers only	DR-3	20.0	15:40:47	7622840.32	752538.00	4.6	
Weather:							
Clear							
Wind:							
0-5 kts							
<u>Seas:</u>							
0-1'							
<u>Disposal location</u>							
Columbia River RM 101							
<u>Seas:</u> 0-1' <u>Disposal location</u>				lastice Talesco			

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 taken out of plume on port side.	
	The dredge moved away from the area while continuing dredging to avoid
	further increasing the turbidity at the location where the exceedence was
	measured. The dredge coordinates were marked on the GPS screen to
	insure no further dredging occurred at the location where the exceedence
	was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		